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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/593,358	06/14/2000	Willard L. Hofer	MICS.0053	8367
7	7590 05/30/2002			
Michael G Fisher Fletcher Yoder & Van Someren P O Box 92289			EXAMINER	
			NGUYEN, JIMMY	
Houston, TX 77269-2289			ART UNIT	PAPER NUMBER
			2829	
		DATE MAILED: 05/30/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	- i			
		09/593,358	HOFER ET AL.				
# .	Office Action Summary	Examiner	Art Unit				
		Jimmy Nguyen	2829				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM							
THE N - Exten after 9 - If the - If NO - Failur - Apy o	MAILING DATE OF THIS COMMUNICATION slons of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuably received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, howeve ply within the statutory minim d will apply and will expire SIX the cause the application to b	r, may a reply be timely filed um of thirty (30) days will be considered time ((6) MONTHS from the mailing date of this ecome ABANDONED (35 U.S.C. § 133).	ely. communication.			
1)⊠	Responsive to communication(s) filed on 22	? February 2002 .					
2a) <u></u> ☐	,,,,	This action is non-fina					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
	Claim(s) 1-7 is/are pending in the application						
	4a) Of the above claim(s) is/are withdr	awn from considerat	ion.				
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-7</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and	or election requirem	ent.				
Application Papers							
9) The specification is objected to by the Examiner.							
10) 🔲	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docume						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
15) <u></u>	i)	provisional applicatio estic priority under 35	n has been received. 5 U.S.C. §§ 120 and/or 121.				
Attachmer	nt(s)						
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	5)	Interview Summary (PTO-413) Paper Notice of Informal Patent Application (F Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundar et al (US 6283701) in view of Matsukawa et al (US 5518542)

Regarding claim 1, Sundar et al disclose (fig 5)

A holding structure (90) having members (93) arranged to hold and rotate (by roller 92, column 3 line 55-65) the substrate (302) about a first axis, the holding structure (90) being coupled to a rotatable member (piston rod, column 3 line 55-65).

However, Sundar et al is silent on the rotable member configured to rotate the holding structure about a second axis different from the first axis.

On the other hand, Matsukawa et al teach on the rotable member configured to rotate the holding structure (111a, 111b) about a second axis (flipping) different from the first axis (rotate by the roller 92) for the purpose of providing the ability for testing system to test the wafer from different angle.

It would have been obvious to one having an ordinary skill in the art at the time of the invention was made to modify the robots arm of Sundar et al and providing the . Application/Control Number: 09/593,358

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flipping feature as taught by Matsukawa et al for the purpose of providing the ability for testing system to test the wafer from different angle

Regarding claim 2, Sundar et al discloses (fig 5) the members (93) comprises a plurality of wedge assemblies (92) configured to rotate the substrate (302) about the first axis

Regarding claim 3, Sundar et al discloses (fig 5) the first axis is disposed generally perpendicular to a flat surface of the substrate (302) and extends generally through an axial center of the substrate.

Regarding claim 4, Matsukawa et al discloses (fig 12) the holding structure comprises tow L shaped gripping arms (111a, 111b) arranged to form a single U shape and configured to hold the substrate substantially parallel to the gripping arms

Regarding claims 5,6, Matsukawa et al discloses the U shaped structure is configured to open and close about the perimeter of the substrate (W)

Regarding claim 7, Sundar et al discloses (fig 17) the holding structure (90) comprises three wedge assemblies (92, as seen in fig 17), at least one wedge assembly coupled to a motor (column 3 line 55-65). and configured to rotate the substrate (302) about the

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first axis disposed generally perpendicular to a flat surface of the substrate (302) and extending generally through an axial center of the substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy Nguyen at (703) 306-5858. Any inquiry of a General nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

JN. May 8, 2002

> MICHAEL SHERRY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Mulialler 5-16-02